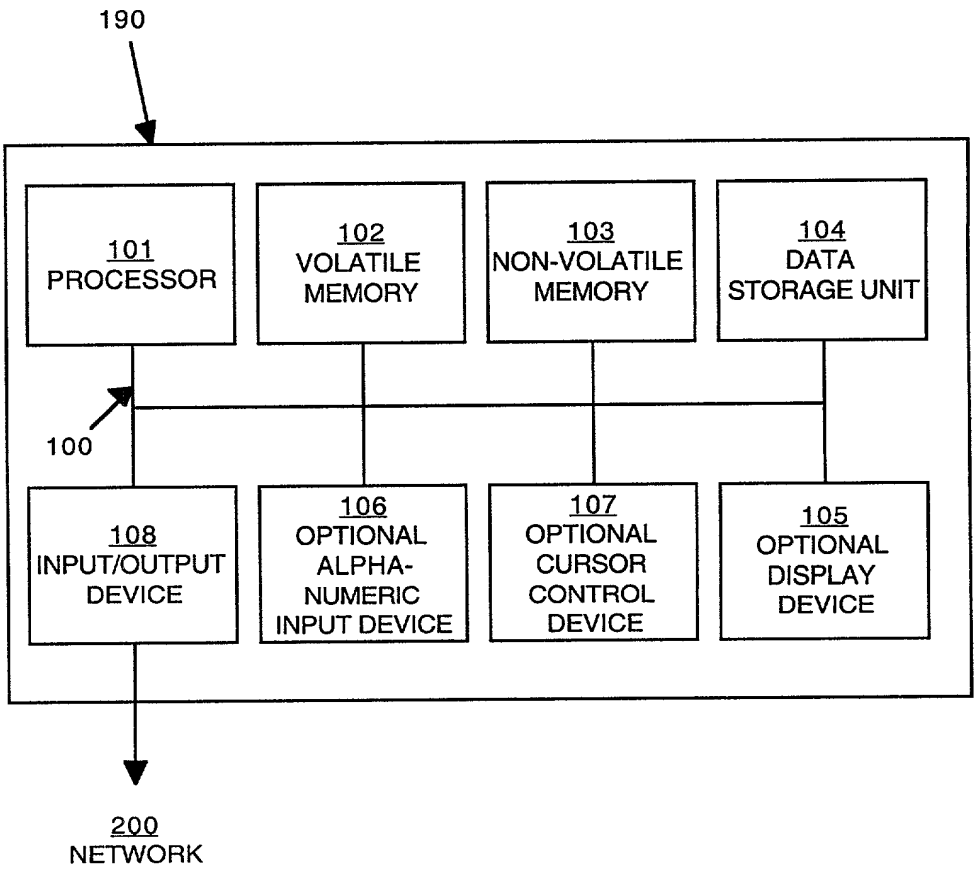

190
101
PROCESSOR
102
VOLATILE
MEMORY
103
NON-VOLATILE
MEMORY
104
DATA
STORAGE UNIT
100
108
INPUT/OUTPUT
DEVICE
106
OPTIONAL
ALPHA-
NUMERIC
INPUT DEVICE
107
OPTIONAL
CURSOR
CONTROL
DEVICE
105
OPTIONAL
DISPLAY
DEVICE
200
NETWORK

Figure 1

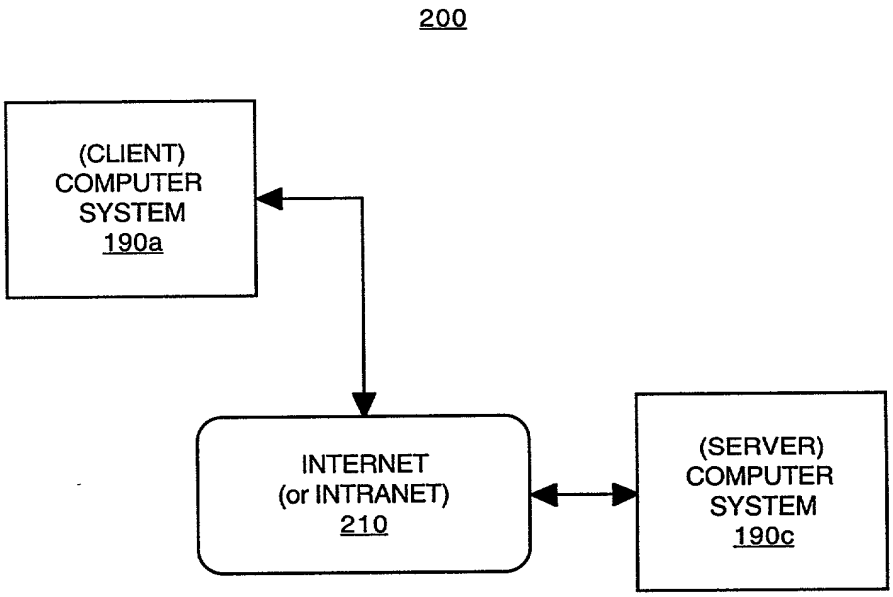

200
(CLIENT)
COMPUTER
SYSTEM
190a
INTERNET
(or INTRANET)
210
(SERVER)
COMPUTER
SYSTEM
190c

Figure 2

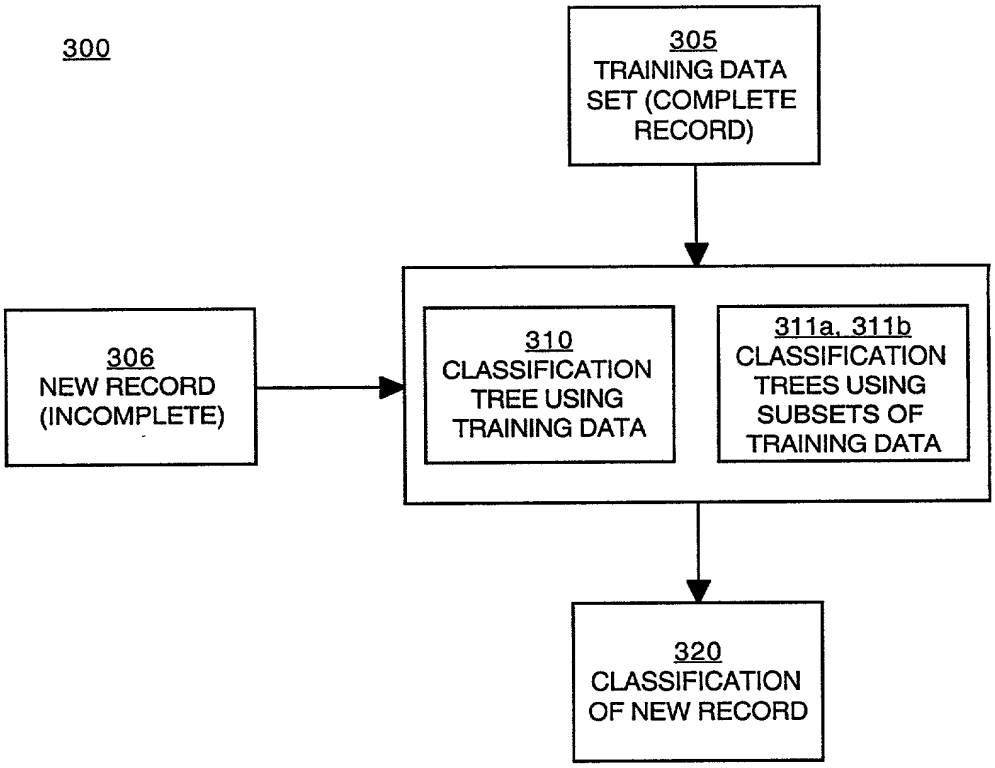
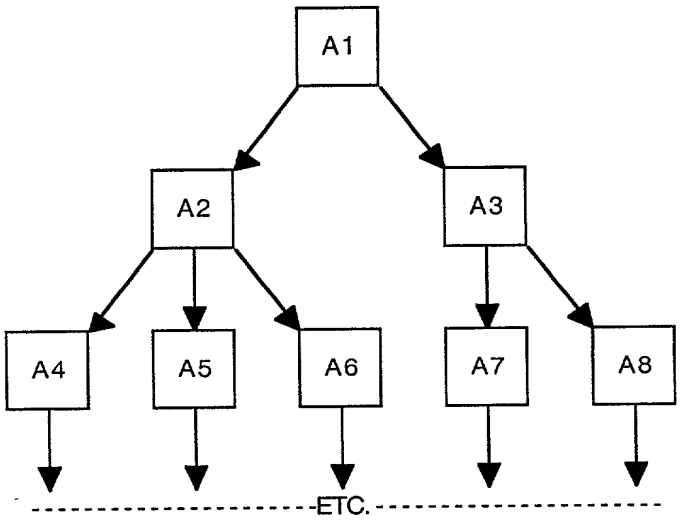

300
305
TRAINING DATA SET (COMPLETE RECORD)
306
NEW RECORD (INCOMPLETE)
310
CLASSIFICATION TREE USING TRAINING DATA
311a, 311b
CLASSIFICATION TREES USING SUBSETS OF TRAINING DATA
320
CLASSIFICATION OF NEW RECORD

Figure 3

TRAINING DATA = [A1, A2, A3,..., An]

310



SUBSET OF TRAINING DATA = [A1, A3,..., An]

311a

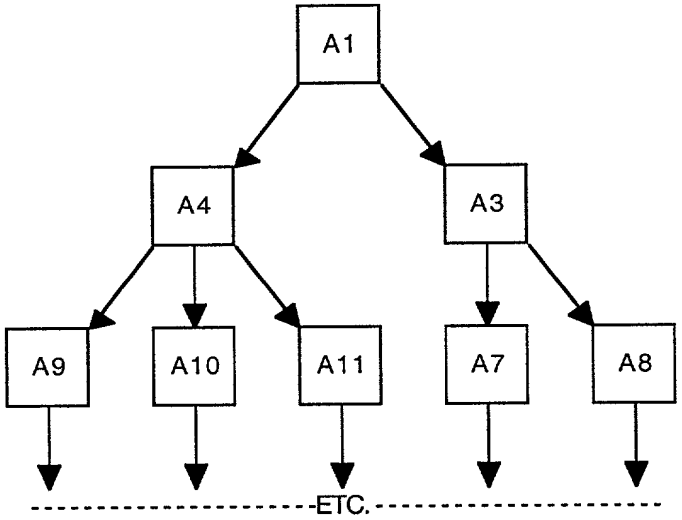


Figure 4

500

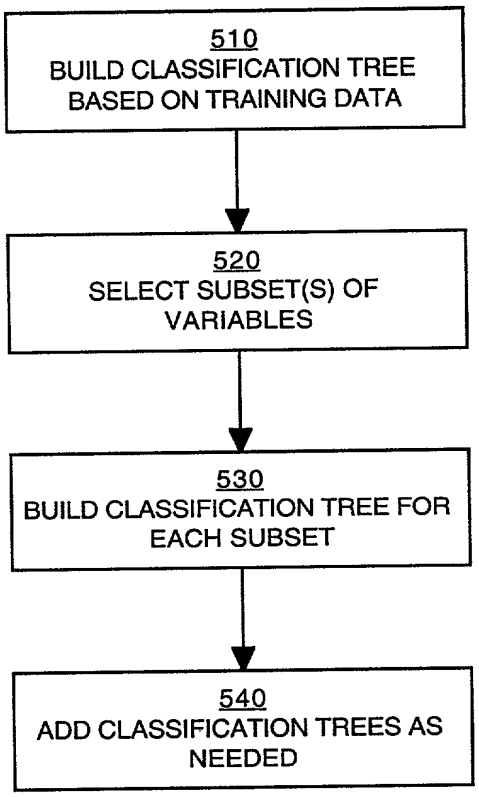

510
BUILD CLASSIFICATION TREE BASED ON TRAINING DATA
520
SELECT SUBSET(S) OF VARIABLES
530
BUILD CLASSIFICATION TREE FOR EACH SUBSET
540
ADD CLASSIFICATION TREES AS NEEDED

Figure 5

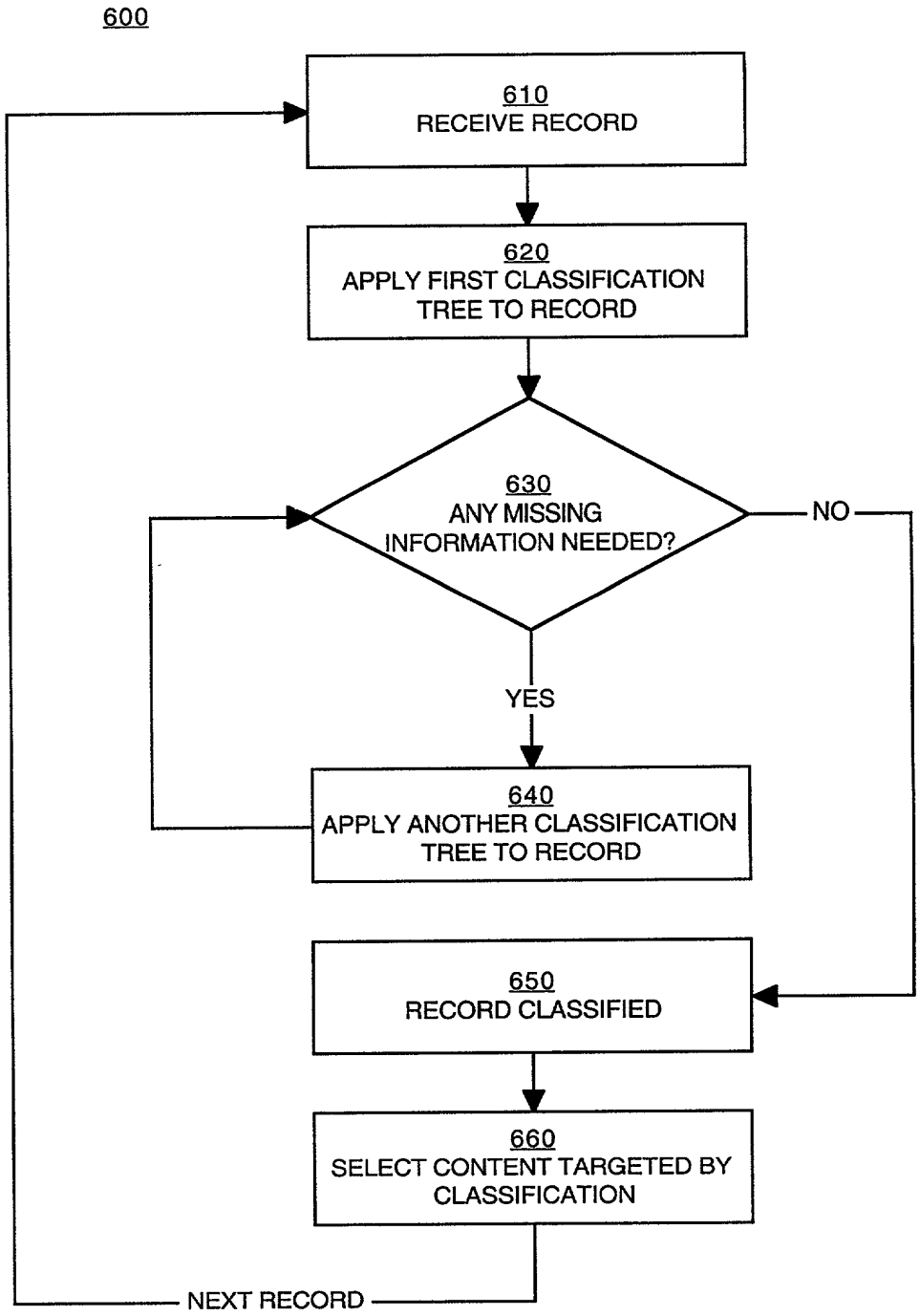

600
610
RECEIVE RECORD
620
APPLY FIRST CLASSIFICATION TREE TO RECORD
630
ANY MISSING INFORMATION NEEDED?
NO
YES
640
APPLY ANOTHER CLASSIFICATION TREE TO RECORD
650
RECORD CLASSIFIED
660
SELECT CONTENT TARGETED BY CLASSIFICATION
NEXT RECORD

Figure 6